

await y DT01ACA200

En los nodos twin con discos TOSHIBA DT01ACA200 en raid software, la escritura cae a niveles de 10Mb/s, sin patron aparente, cuando esto sucede:

- Solo uno uno de los discos que forma el dispositivo md raid se atora, se ve con "iostat -xd 2" fijandonos en **await**

| Device: | rrqm/s | wrqm/s | r/s | w/s | rsec/s | wsec/s | avgrq-sz | avgqu-sz | await | svctm | %util |
|---------|--------|--------|------|-------|--------|----------|----------|----------|---------------|-------|--------|
| sdb | 0.00 | 854.50 | 0.00 | 35.50 | 0.00 | 7120.00 | 200.56 | 0.29 | 8.11 | 0.41 | 1.45 |
| sda | 0.00 | 882.50 | 0.00 | 31.00 | 0.00 | 29688.00 | 957.68 | 129.44 | '''3470.82''' | 32.26 | 100.00 |

- Parametros de S.M.A.R.T que varian sus valores habituales :
 - Raw_Read_Error_Rate: cuando va bien 0 despues valores >0 sin significado decimal
 - Throughput_Performance y Seek_Time_Performance incrementan su valor por encima de los habituales
- Los test "smartctl -t long" y "badblocks -s v" no dan errores sobre el disco atorado.

Buscando Soluciones

Por el momento la solucion es poner al disco en **standby** (no afecta al sistema, ni al raid, cuestion de segundos), y con esto el disco vuelve a tasas habituales.

```
[root@wn013 sbin]# hdparm -C /dev/sda; hdparm -y /dev/sda ;hdparm -C /dev/sda

/dev/sda:
drive state is:  active/idle

/dev/sda:
issuing standby command

/dev/sda:
drive state is:  standby
```

Con esta operacion aumentalos los contadores SMART: start_stop_count , power-off_retract_count, load_cycle_count

```
cexec macc2:1,3,5,7,9,11,13,15 "smartctl -a /dev/sda |grep -e Start -e Power_C -e Power-Off -e Load ; smartctl -a /dev/sdb
***** macc2 *****

----- wn011-----
 4 Start_Stop_Count          0x0012   100   100   000   Old_age   Always   -    12
12 Power_Cycle_Count        0x0032   100   100   000   Old_age   Always   -    11
192 Power-Off_Retract_Count 0x0032   100   100   000   Old_age   Always   -    21
193 Load_Cycle_Count       0x0012   100   100   000   Old_age   Always   -    21
 4 Start_Stop_Count          0x0012   100   100   000   Old_age   Always   -    13
12 Power_Cycle_Count        0x0032   100   100   000   Old_age   Always   -    12
192 Power-Off_Retract_Count 0x0032   100   100   000   Old_age   Always   -    21
193 Load_Cycle_Count       0x0012   100   100   000   Old_age   Always   -    21
----- wn013-----
 4 Start_Stop_Count          0x0012   100   100   000   Old_age   Always   -    17
12 Power_Cycle_Count        0x0032   100   100   000   Old_age   Always   -    15
192 Power-Off_Retract_Count 0x0032   100   100   000   Old_age   Always   -    25
193 Load_Cycle_Count       0x0012   100   100   000   Old_age   Always   -    25
 4 Start_Stop_Count          0x0012   100   100   000   Old_age   Always   -    16
12 Power_Cycle_Count        0x0032   100   100   000   Old_age   Always   -    16
192 Power-Off_Retract_Count 0x0032   100   100   000   Old_age   Always   -    27
193 Load_Cycle_Count       0x0012   100   100   000   Old_age   Always   -    27
----- wn015-----
 4 Start_Stop_Count          0x0012   100   100   000   Old_age   Always   -    45
12 Power_Cycle_Count        0x0032   100   100   000   Old_age   Always   -    44
192 Power-Off_Retract_Count 0x0032   100   100   000   Old_age   Always   -    51
```

| | | | | | | | | | |
|------------------|-------------------------|--------|-----|-----|-----|---------|--------|---|----|
| 193 | Load_Cycle_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 51 |
| 4 | Start_Stop_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 39 |
| 12 | Power_Cycle_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 37 |
| 192 | Power-Off_Retract_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 45 |
| 193 | Load_Cycle_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 45 |
| ----- wn017----- | | | | | | | | | |
| 4 | Start_Stop_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 22 |
| 12 | Power_Cycle_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 22 |
| 192 | Power-Off_Retract_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 34 |
| 193 | Load_Cycle_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 34 |
| 4 | Start_Stop_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 23 |
| 12 | Power_Cycle_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 22 |
| 192 | Power-Off_Retract_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 33 |
| 193 | Load_Cycle_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 33 |
| ----- wn019----- | | | | | | | | | |
| 4 | Start_Stop_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 12 |
| 12 | Power_Cycle_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 12 |
| 192 | Power-Off_Retract_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 21 |
| 193 | Load_Cycle_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 21 |
| 4 | Start_Stop_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 13 |
| 12 | Power_Cycle_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 12 |
| 192 | Power-Off_Retract_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 20 |
| 193 | Load_Cycle_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 20 |
| ----- wn021----- | | | | | | | | | |
| 4 | Start_Stop_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 4 |
| 12 | Power_Cycle_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 4 |
| 192 | Power-Off_Retract_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 42 |
| 193 | Load_Cycle_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 42 |
| 4 | Start_Stop_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 4 |
| 12 | Power_Cycle_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 4 |
| 192 | Power-Off_Retract_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 42 |
| 193 | Load_Cycle_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 42 |
| ----- wn023----- | | | | | | | | | |
| 4 | Start_Stop_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 3 |
| 12 | Power_Cycle_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 3 |
| 192 | Power-Off_Retract_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 41 |
| 193 | Load_Cycle_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 41 |
| 4 | Start_Stop_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 3 |
| 12 | Power_Cycle_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 3 |
| 192 | Power-Off_Retract_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 41 |
| 193 | Load_Cycle_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 41 |
| ----- wn025----- | | | | | | | | | |
| 4 | Start_Stop_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 14 |
| 12 | Power_Cycle_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 14 |
| 192 | Power-Off_Retract_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 26 |
| 193 | Load_Cycle_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 26 |
| 4 | Start_Stop_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 16 |
| 12 | Power_Cycle_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 14 |
| 192 | Power-Off_Retract_Count | 0x0032 | 100 | 100 | 000 | Old_age | Always | - | 24 |
| 193 | Load_Cycle_Count | 0x0012 | 100 | 100 | 000 | Old_age | Always | - | 24 |